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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,240	04/08/2002	Michelle Marguerite Grundy	6825.US	8802
7590 08/20/2004			EXAMINER	
St. Onge Steward Johnston & Reens, LLC 986 Bedford Street			LILLING, HERBERT J	
Stamford, CT 06905			ART UNIT	PAPER NUMBER
			1651	
			DATE MAILED: 08/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Amplication No.	A				
Office Action Summary		Application No.	Applicant(s)				
		10/018,240	GRUNDY ET AL.				
		Examiner	Art Unit				
		HERBERT J LILLING	1651				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on <u>09</u>	August 2004.					
·		is action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims						
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers						
10)	The specification is objected to by the Examir The drawing(s) filed on is/are: a) accompanies and any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the I	cepted or b) objected t e drawing(s) be held in abey ction is required if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFF	• •			
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		_					
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/06 No(s)/Mail Date <u>12-07-2001</u> .	Paper No	v Summary (PTO-413) o(s)/Mail Date if Informal Patent Application (PTO- 	.152)			

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1. Receipt is acknowledged of the amendment and election response filed August 09, 2004.

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- 2. Claims 1-20 are now pending in this application.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Gundy et al., "Structural and Chemical Characterisation of Echinoderm Non-Fouling Surfaces".

Gundy et al teaches echinoderms which" surfaces, free from microfouling organisms, despite having an enormous surface area. The major mechanism preventing fouling may be a non-stick surface coat or modified glycocalyx. " The reference contains structural and physical data for electron microscopy (EM), atomic force microscopy (AFM) and Fourier transform infrared spectroscopy (FTIR), which data is within the scope of the claimed inventions. The Abstract also states:

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"The cuticle of starfish and sea urchin tubefeet and sea cucumber body wall were found to stain positively for anti-collagen type I and anti-chondroitin sulphate. FTIR spectroscopy experiments confirmed that the echinoderm cuticle was predominantly proteoglycan in nature and that its composition could be manipulated with enzymic treatments, in order to elucidate which chemical components contributed towards its anti-adhesive properties. The EM and AFM studies have provided valuable, high resolution, information about the structural arrangement of the echinoderm cuticle."

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Applicant is requested to submit the full paper pertaining to the above abstract.

Applicant will consider allowable subject matter pertaining to the product(s) per se that will not conflict with the products of the abstract.

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-20 [6 and 20 included] are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

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5. Applicant is required to submit the structure of the compound or components of the claimed product or composition or sufficient information that will clearly indicate the claimed compound or composition. The instant claims lack the required information, which includes the structure or sufficient properties to reasonably indicate the claimed product, or composition, which includes the melting point, boiling point, density, molecular weight, physical and chemical properties as well as the IR, UV, NMR as some of the properties. The claimed properties must be essentially positive limitations and not intended limitations.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A search and examination of the claimed product or compositions cannot be properly searched and examined absent the properties for the product or composition. The functional properties have been considered to be insufficient for a proper search and examination.

6. No claim is allowed.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Examiner Lilling whose telephone number is 571-272-0918** and **Fax Number** is (703) 872-9306 or SPE Michael Wityshyn whose telephone number is 571-272-0926. Examiner can be reached Monday-Thursday from about 5:30 A.M. to about 3:00 P.M. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

H.J.Lilling: HJL (703) 308-2034 Art Unit <u>1651</u> August 19, 2004

Dr. Herbert J. Lilling Primary Examiner

Group 1600 Art Unit 1651